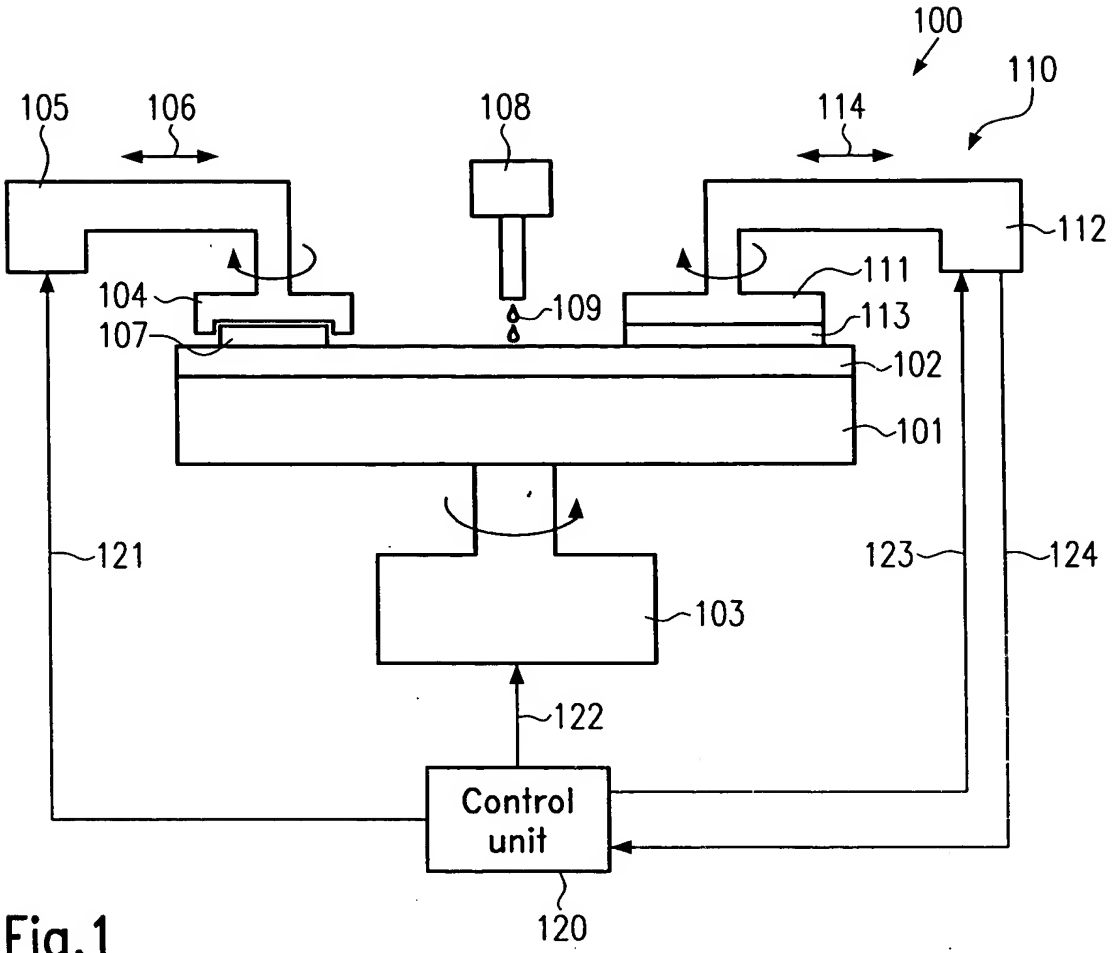
100
110
105
106
108
114
112
111
104
109
113
107
102
101
121
123
124
103
122
Control unit
120

Fig.1

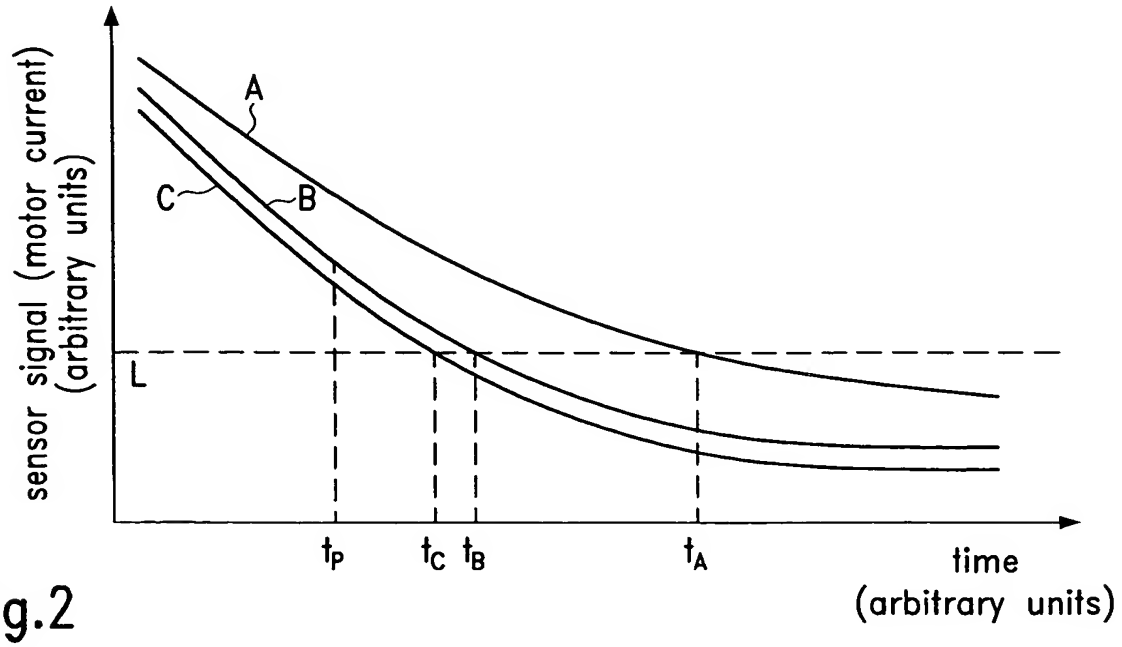
sensor signal (motor current) (arbitrary units)
A
B
C
L
t_P
t_C
t_B
t_A
time (arbitrary units)

Fig.2

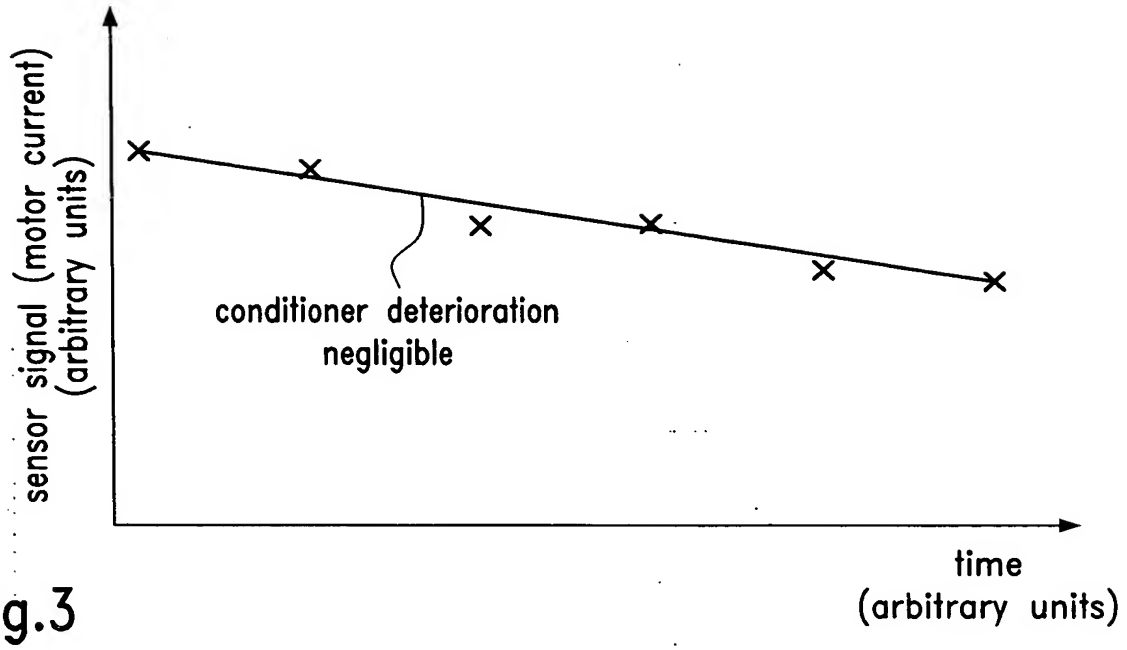
sensor signal (motor current)
(arbitrary units)
conditioner deterioration
negligible
time
(arbitrary units)

Fig.3

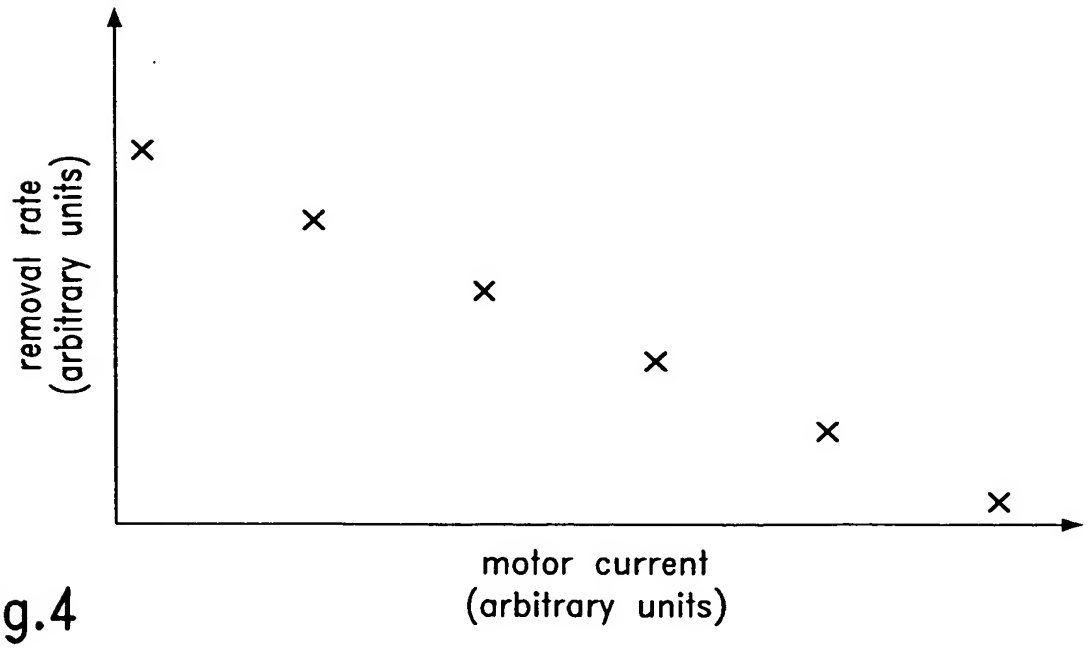
removal rate
(arbitrary units)
motor current
(arbitrary units)

Fig.4